

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
6 January 2005 (06.01.2005)

PCT

(10) International Publication Number  
**WO 2005/001463 A1**

(51) International Patent Classification<sup>7</sup>: **G01N 27/48, 33/487**

(21) International Application Number:  
**PCT/GB2004/002770**

(22) International Filing Date: **28 June 2004 (28.06.2004)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:  
**0314944.0 26 June 2003 (26.06.2003) GB**

(71) Applicant (*for all designated States except US*): **CRAVENFIELD UNIVERSITY [GB/GB]; SILSOE, MILTON KEYNES Bedfordshire MK45 4DT (GB).**

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **SAINI, Selwayan [GB/GB]; 16 Sandhill Close, Millbrook, MILTON KEYNES Bedfordshire MK45 2JD (GB). BESSANT, Conrad [GB/GB]; 18 Oliver Street, Ampthill, MILTON KEYNES Bedfordshire MK45 2SA (GB). LEE-DAVEY,**

**Jon [GB/GB]; 2 Willow Way, SHEFFORD Bedfordshire SG17 6JY (GB). MALECHA, Michael, Markus [DE/GB]; 13 Judith Gardens, Kempston, BEDFORD Bedfordshire MK42 7EQ (GB).**

(74) Agents: **STUART, Ian et al.; Mewburn Ellis LLP, York House, 23 Kingsway, London Greater London WC2B 6HP (GB).**

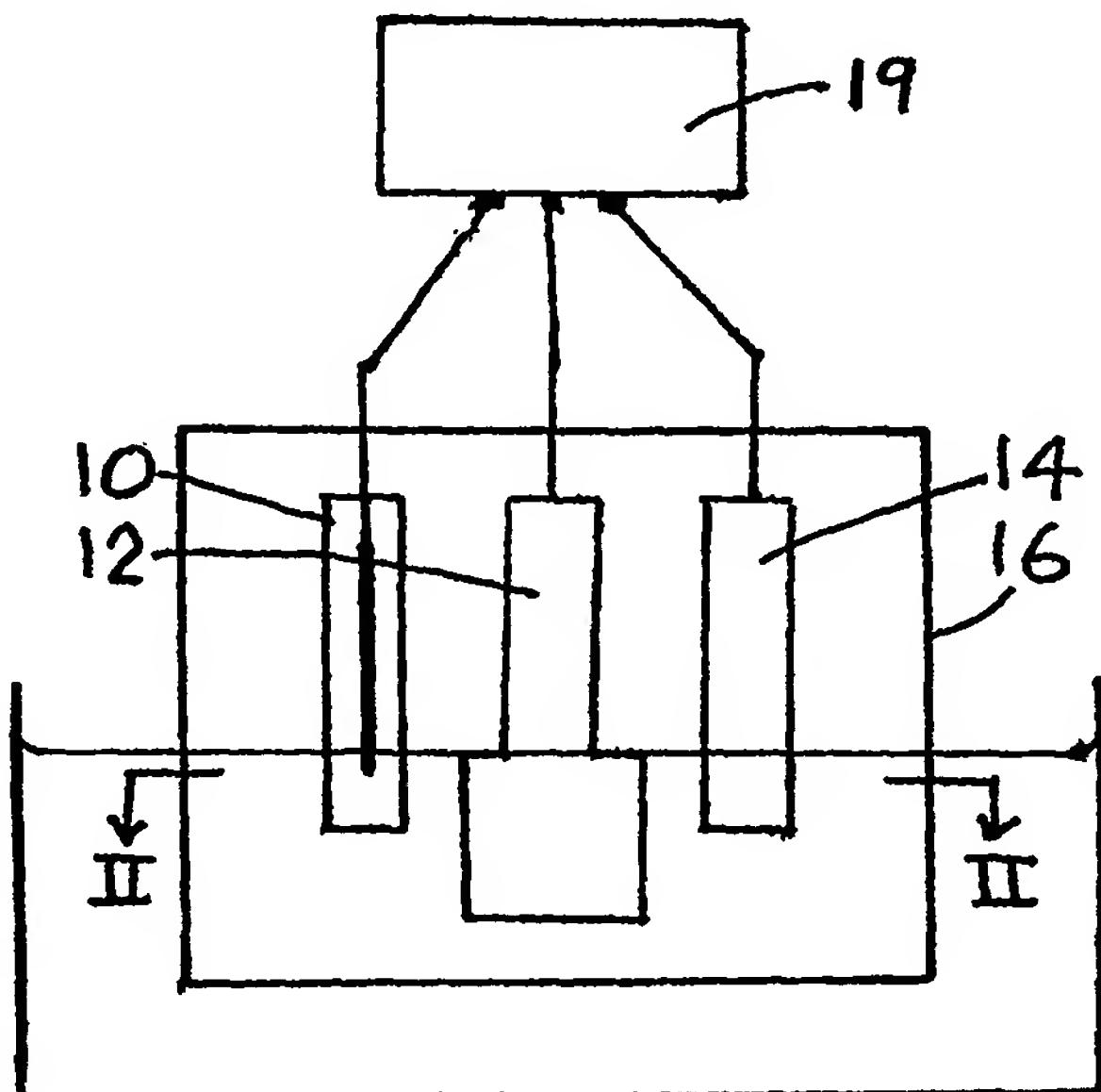
(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): **ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,**

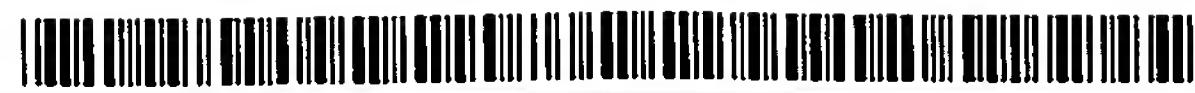
*[Continued on next page]*

(54) Title: VOLTAMMETRIC DETECTION OF METABOLITES IN PHYSIOLOGICAL FLUIDS

(57) Abstract: For the determination of analytes in body fluids, voltammetry using a simple, non-selective, electrode sensor system has been found to work. The signal is desirably processed by a technique such as neural network analysis, which can permit plural analytes to be determined simultaneously.



WO 2005/001463 A1



FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*